

PATENT ABSTRACTS OF JAPAN

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11059142

(71) Applicant: FUTABA CORP

(22) Date of filing:

31.01.1999

(72) Inventor: **TAKIGAWA HIROSHI**

SAKAKIBARA KENJU

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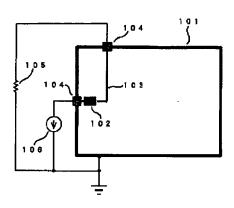
(54) ELECTRON EMITTING SOURCE AND **MANUFACTURE THEREOF**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an easy manufacturing method of an electron emitting source.

SOLUTION: A negative electrode 102 is locally heated by carrying an arc electric current of DC 100 A and arcdischarging for a second in a chamber 101 of an He atmosphere under a pressure of 1 Pa. Negative electrode material for forming the negative electrode 102 is scattered and particles with a lot of carbon nanotubes formed on the surface are generated. The particles are collected and used as an emitter of the electron emitting source.

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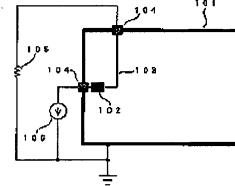
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> JP2000223012A2: ELECTRON EMITTING SOURCE AND MANUFACT **§**Title:

> > **THEREOF**

Manufacture of source for electron emission, involves heating particle PDerwent Title:

formation material at predetermined atmosphere and adhering the formed

particle to a substrate [Derwent Record]

JP Japan

> A2 Document Laid open to Public inspection i

TAKIGAWA HIROSHI:

SAKAKIBARA KENJU;

ITO SHIGEO;

FUTABA CORP PAssignee:

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② Application

JP1999000059142

Number:

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1999-01-31 JP1999000059142 Priority Number:

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None

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[®] Forward References:

PDF **Patent** Pub.Date Inventor Assignee **Title** Electron-emitting device, electron-Canon image-forming apparatus, and I Kitamura; US6848962 2005-02-01 Kabushiki producing electron-emitting dev Shin Kaisha electron-emitting apparatus

CHEMABS 133(12)171172B CHEMABS 133(12)171172B DERABS C2000-596841 DE Ø Other Abstract

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